7600 Stereo Receiver

Date of manufacture : Jan 87 - Jun 90

Please note that this document contains the text from the original product brochure, and some technical statements may now be out of date

The NAD 7600 is one of the world's most powerful, most sensitive, and most flexible stereo receivers. It consists of NAD's three finest Monitor Series stereo separates 11300 Preamplifier, 4300 Tuner, and 2600A Power Amplifier), combined on a single chassis and operated by infrared remote control.

The 7600 is rated at 150 watts/channel for continuous test tones, but its Power Envelope circuitry produces much higher levels of tone-burst power for music. Even with compressed recordings of rock music in which the peaks are only a few dB higher than the aver-age power, the 7600 maintains a clipping level above 500 watts per channel into the complex 4-ohm impedance that is typical of real loudspeakers. In bridged mode a 7600 matched with a 2600A will deliver nearly 3000 watts of dynamic power into a pair of such speakers. The FET-input MM phono stage, employing eight selected low-noise transistors per channel, combines superb sound-stage imaging and detail with superior rejection of digital and radio-frequency interference. A separate class-A pre-preamplifier furnishes exquisitely quiet, wide-range moving-coil playback. The line-level circuits in the 7600, including its feedback-operated volume control, have a 118dB signal/noise ratio that preserves all the delicacy and purity of low-level musical information. Bass EQ and semi-parametric tone controls provide flexible sonic tailoring to compensate for differences in recordings, speakers, and listening rooms.

The tuner section of the 7600 shares the unique ultra-sensitive front end of the 4300. Together with NAD's FM NR noise-reduction system, it provides exceptionally clear and quiet reception of weak signals. Whether you use the convenient rotary knob, the 16 presets, or the remote control for tuning, you are assured of crystal-controlled digital accuracy.

Combining convenience with superbly musical performance, the NAD 7600 is a no-holds-barred product that establishes new standards in receiver design.

PRE-AMP SECTION

Phono input		
Input impedance *(R and C)*	MM	47kΩ / 120pF
	MC	47kΩ / 120pF
Input sensitivity, 1kHz	MM	0.28mV ref. 1W
	MC	0.02mV ref. 1W
Signal/Noise ratio *(A-weighted with cartridge connected)*	MM	76dB ref. 5mV
	MC	76dB ref. 5mV
THD *(20Hz - 20kHz)*		<0.04%
RIAA response accuracy *(20Hz - 20kHz)*		±0.5dB
Line level inputs		
Input impedance *(R and C)*		50kΩ / 250pF
Input sensitivity *(ref. 1W)*		15mV
Maximum input signal		>10V
Signal/Noise ratio *(A-weighted ref 1W)*		96dB
Frequency response *(20Hz - 20kHz)*		±0.3dB
Line level outputs		
Output impedance	Pre-amp	600Ω
	Tape	Source Z + 1kΩ
Maximum output level		>10V
Tone controls		
Treble		±12dB at 3, 6 or 12kHz
Bass		±12dB at 50, 120 or 250Hz
Bass EQ		+3dB at 60Hz
		+6dB at 36Hz
Infrasonic filter *(Switchable)*		-3dB at 14Hz, 12dB / octave

POWER AMP SECTION

Continuous output power into 8Ω *		150W (21.7dBW)
Rated distortion *(THD 20Hz - 20kHz)*		0.03%
Clipping power *(maximum continuous power per channel)*		170W
IHF Dynamic headroom at 8Ω		+4dB
IHF dynamic power *(maximum short term power per channel)*	8Ω	400W (26dBW)
	4Ω	600W (28dBW)
	2Ω	800W (29dBW)
Damping factor *(ref. 8Ω, 50Hz)*		>120
Input impedance		30kΩ / 1500pF
Input sensitivity *(for rated power into 8Ω)*		1V
Frequency response		3Hz - 80kHz +0, -3dB
Signal/noise ratio	ref. 1W	100dB
	ref. rated power	122dB
THD *(20Hz - 20kHz)*		<0.03%
Bridged Mode		
Continuous output power into 8Ω *		400W (26dBW)
IHF Dynamic headroom at 8Ω		+5dB
IHF dynamic power *(maximum short term power per channel)*	8Ω	1.2kW (31dBW)
	4Ω	1.4kW (31.5dBW)

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FM TUNER SECTION		
Input sensitivity	Mono -30dB THD+N	9dBf (0.8µV/75Ω)
	Mono 50dB S/N	12dBf (1.1µV/75Ω)
	Stereo 50dB S/N	24dBf (4.5µV/75Ω)
	Stereo 60dB S/N	35dBf (15µV/75Ω)
Capture ratio *(45 - 65dBf)*		<1.5dB
AM rejection *(45 - 65dBf)*		>70dB
Selectivity, alternate channel		80dB
Selectivity, adjacent channel		10dB
Image rejection		>120dB
I F rejection		>100dB
Harmonic distortion	Mono	0.07%
	Stereo	0.07%
Signal/Noise ratio	Mono	85dB
	Stereo	80dB
Frequency response ±0.5dB		30Hz - 15kHz
Channel separation at 1kHz		55dB
AM TUNER SECTION		
Usable sensitivity		200µV
Selectivity		55dB
Image rejection		50dB
I F rejection		35dB
Signal/Noise ratio		45dB
Harmonic distortion		0.5%
Remote		Yes
NAD Link		No
PHYSICAL SPECIFICATIONS		
Dimensions (W x H x D)		435 x 162 x 422mm
Net weight		15.4kg
Shipping weight		16.3kg
Power consumption *(120 ~ 240V, 50/60Hz)*		700VA

* Minimum power per chnnel, 20Hz - 20kHz, both channels driven with no more than rated distiortion.

Dimensions are of unit's cabinet without attached feet; add up to 18mm for total height.

Dimension depth excludes terminals, sockets, controls and buttons.

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